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Serial No. 10/621,952 Confirm. No.: 1545
Art Unit: 2134 Examiner: Jason Kai Yin Gee
IBM Docket: AUS920030472US1(4011)

AMENDMENT OF THE CLAIMS

1. (Currently Amended) A method for logging a successful authentication of a user, the method comprising:

   generating, on an embedded system, a session identification in response to the authentication to identify a login session for the user;

   storing the session identification in a memory location of the embedded system, the memory location being configured to retain the session identification independent of de-allocations of memory for individual applications, to authenticate the user for at least one of the independent applications;

   transmitting the session identification from the embedded system to the user's computer; and

   authenticating, by the embedded system, the user for the at least one of the independent applications in response to receipt of the session identification upon verifying that the session identification is stored in the memory location of the embedded system.

2. (Original) The method of claim 1, further comprising storing additional session information with the session identification to associate the additional session information with the login session.

3. (Original) The method of claim 1, further comprising:

   associating a time indication with the session identification and

   removing the session identification from the memory location after a period of inactivity by the user.

4. (Original) The method of claim 1, further comprising locking the memory location while accessing an entry for the session identification in the memory location.

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5.   (Original) The method of claim 1, wherein generating a session identification comprises generating a random number, the random number uniquely identifying the user's login session.

6.   (Original) The method of claim 1, wherein storing the session identification comprises storing the session identification in a shared memory buffer.

7.   (Original) The method of claim 1, wherein transmitting the session identification comprises generating a cookie and transmitting the cookie to a web browser utilized by the user.

8.   (Original) The method of claim 1, wherein authenticating the user comprises receiving the session identification from the user and comparing the session identification with session identifications previously stored in the memory location.

9.   (Currently Amended) An apparatus of an embedded system for logging a successful authentication of a user for a-serverthe embedded system, the apparatus comprising:

a memory location of the embedded system to retain a session identification independent of de-allocation of memory for individual applications executed on the server embedded system;

a session creator coupled with the memory location to generate the session identification in response to the authentication to identify a login session of the user, store the session identification in the memory location, and transmit the session identification to the user's computer; and

a session authenticator coupled with the memory location to authenticate the user for an application of the individual applications executed on the server in response to receipt of the session identification upon verifying that the session identification is stored in the memory location.

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10.   (Original) The apparatus of claim 9, further comprising an arbitrator to prevent simultaneous access to the memory location by more than one of the individual applications executed on the server.

11.   (Original) The apparatus of claim 9, wherein the memory location comprises at least a portion of a shared memory buffer.

12.   (Original) The apparatus of claim 9, wherein the session creator comprises a session identification generator to generate a unique, random number to associate with the user and the login session.

13.   (Original) The apparatus of claim 9, wherein the session creator comprises a bundle generator to bundle the session identification with additional session information, associating the additional session information with the login session.

14.   (Original) The apparatus of claim 13, wherein the bundle generator comprises a time stamper to associate a time indication with the session identification and the session authenticator comprises a time monitor coupled with the memory location to remove the session identification from the memory location after a period of inactivity by the user.

15.   (Currently Amended) The apparatus of claim 9, wherein the session creator comprises a bundle transmitter to transmit a bundle having the session identification to a web browser, wherein the web browser is utilized by the user to communicate with the ~~server~~ embedded system.

16.   (Original) The apparatus of claim 9, wherein the session authenticator comprises an identification comparator to compare the session identification received from the user with session identifications previously stored in the memory location.

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17.   (Currently Amended) A machine-accessible medium containing instructions, which when executed by a machine, cause said machine to perform operations, comprising:

generating, on an embedded system, a session identification in response to a user authentication via a login application to identify a login session for a user;

storing the session identification in a memory location of the embedded system, the allocation for the memory location being independent of allocations of memory to individual applications, to authenticate the user for at least one of the individual applications;

transmitting the session identification from the embedded system to the user's computer; and

authenticating, by the embedded system, the user for the at least one of the individual applications in response to receipt of the session identification upon verifying that the session identification is stored in the memory location of the embedded system.

18.   (Original) The machine-accessible medium of claim 17, wherein the operations further comprise arbitrating access to the memory location to prevent simultaneous access by more than one of the individual applications to an entry comprising the session identifier.

19.   (Original) The machine-accessible medium of claim 17, wherein the operations further comprise associating a time indication with the session identification to facilitate removal of the session identification from the memory location upon expiration of the login session.

20.   (Original) The machine-accessible medium of claim 17, wherein the operations further comprise locking the memory location while accessing the memory location.

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21. (Original) The machine-accessible medium of claim 17, wherein generating a session identification comprises generating a unique, random number to associate with the user and the login session.

22. (Original) The machine-accessible medium of claim 17, wherein authenticating the user comprises receiving the session identification from the user and comparing the session identification with session identifications in the memory location.